

Name: _____

Date:

Algebra 1B Pd: _____

Weekend Word Problem #12: Polynomial Geometry

The Situation: Nick is creating a rectangle whose area can be represented by the polynomial $15x^2 - 7x - 2$. He challenges Khalil to figure out the polynomials that represent the length and width of his rectangle.

Khalil knows how to do this! He will simply FACTOR Nick's trinomial in order to break the trinomial into its original products since length x width = area!

Your Task: Help Khalil find the length and width of Nick's rectangle!

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The Sketch: Sketch and label Nick's rectangle here.

The Solution: Write the binomials that represent the length and width of Nick's rectangle:

(_____) (_____)

The Writing: Discuss any problems and/or breakthroughs during your problem solving process. Write at least TWO QUALITY COMPLETE SENTENCES.

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